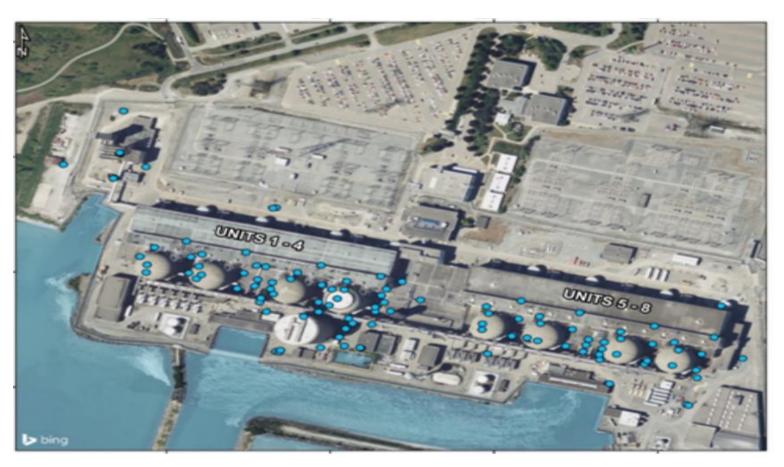


Annual Program Objectives

- Verify groundwater flow direction
- Monitor changes to on-site groundwater quality to identify new issues in a timely manner and assess historical issues
- Monitor groundwater quality at the site boundary to confirm there are no off-site impacts

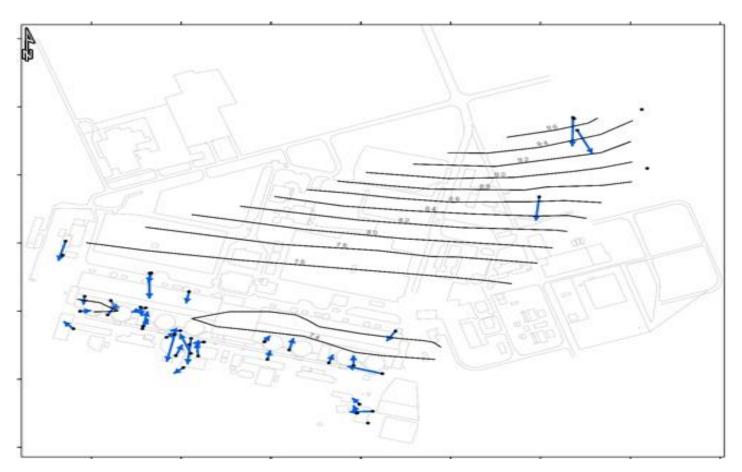


PN | Program Overview

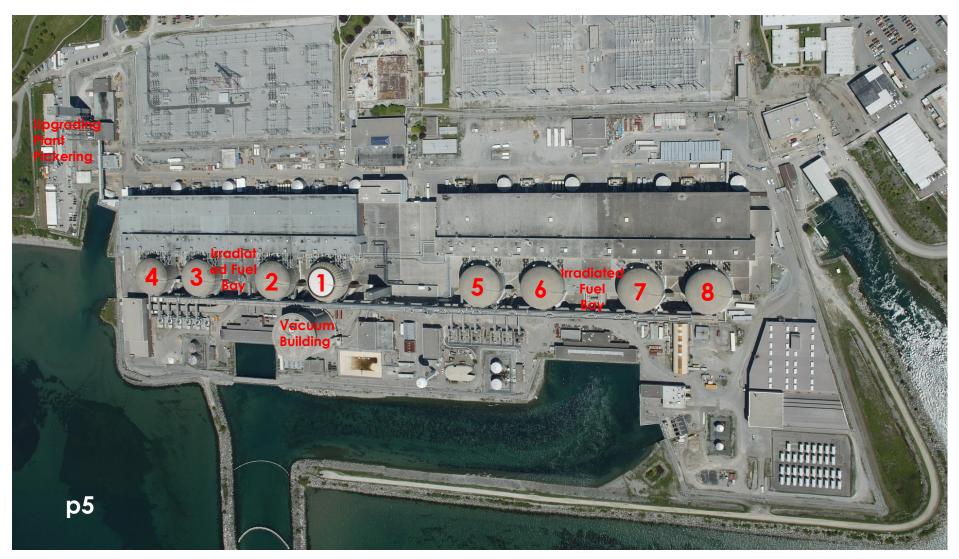


- √ 125 sampling locations
- √ 300 samples

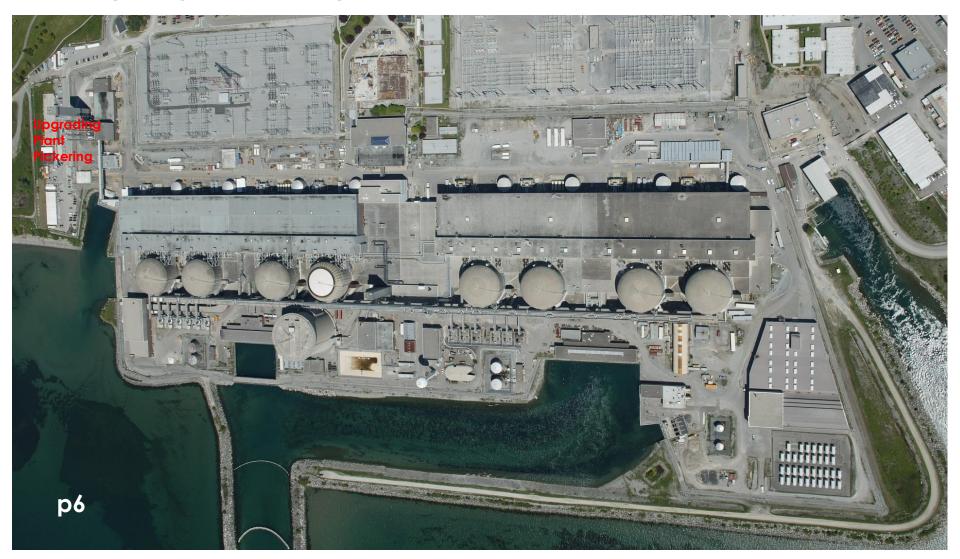
PN | Groundwater Flow Direction



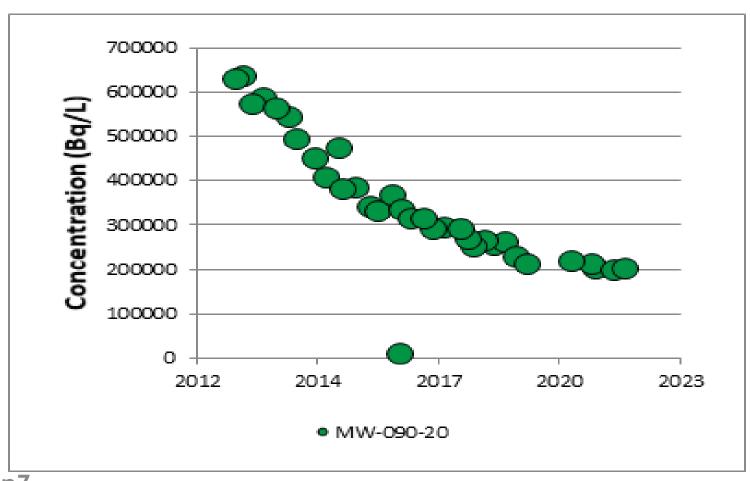
Key Areas Monitored



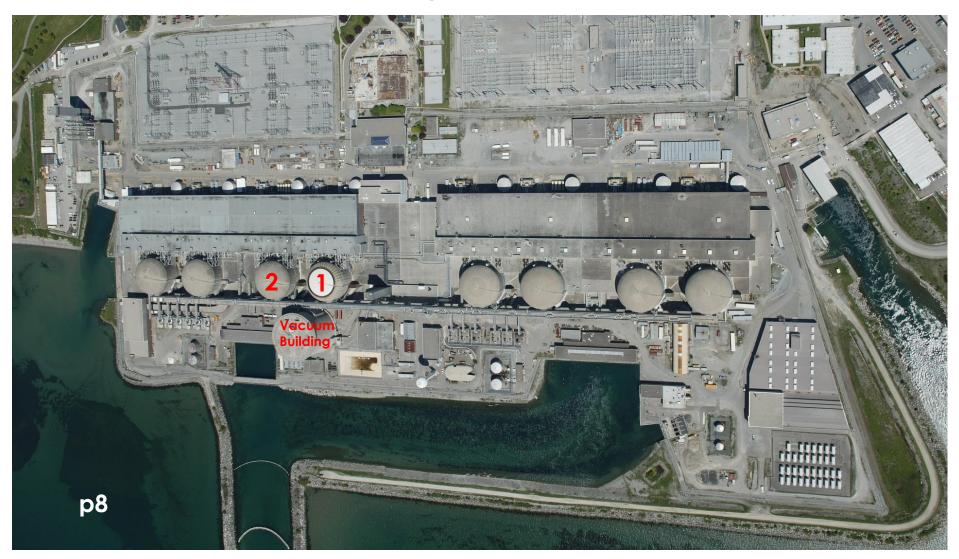
Upgrading Plant Pickering Area



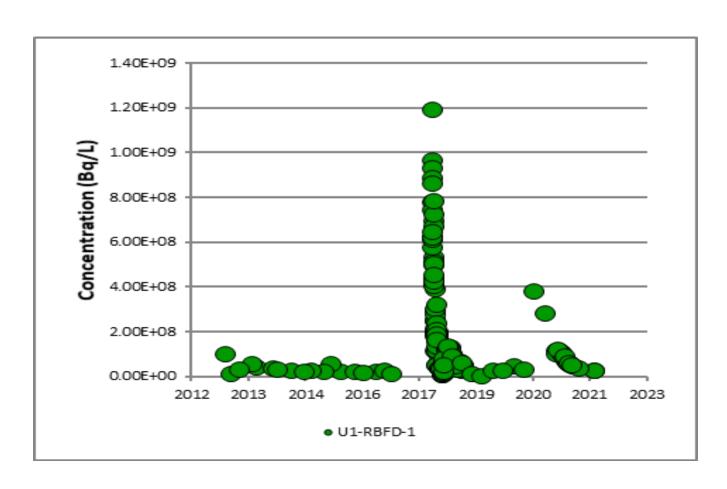
Upgrading Plant Pickering Area



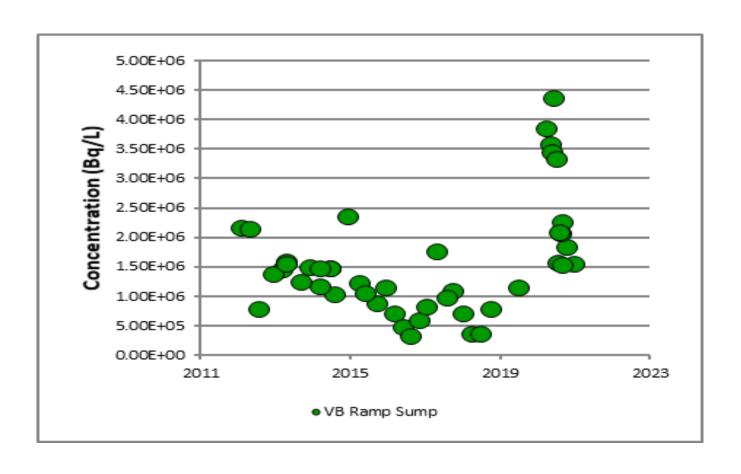
Unit 1, Unit 2, and Vacuum Building Areas



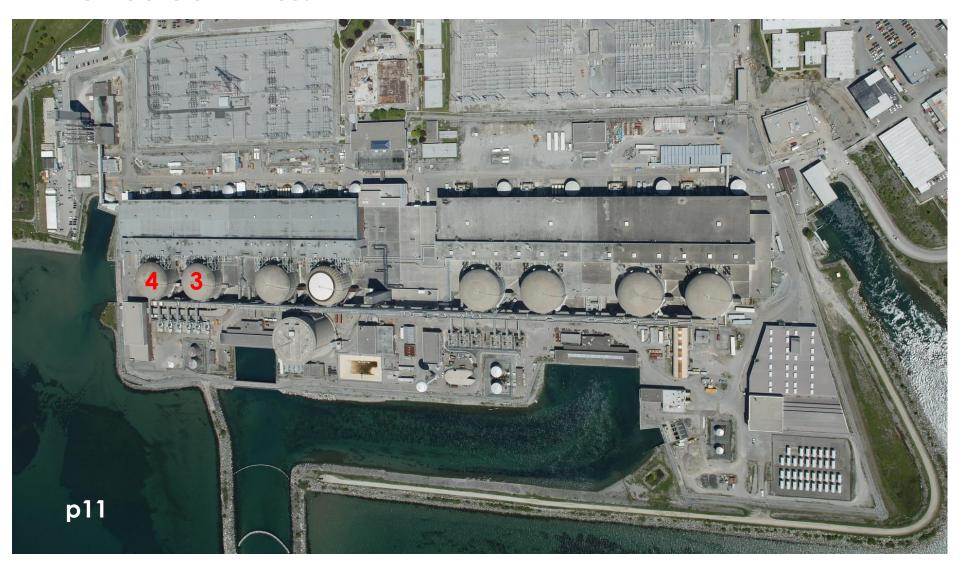
Unit 1, Unit 2, and Vacuum Building Areas



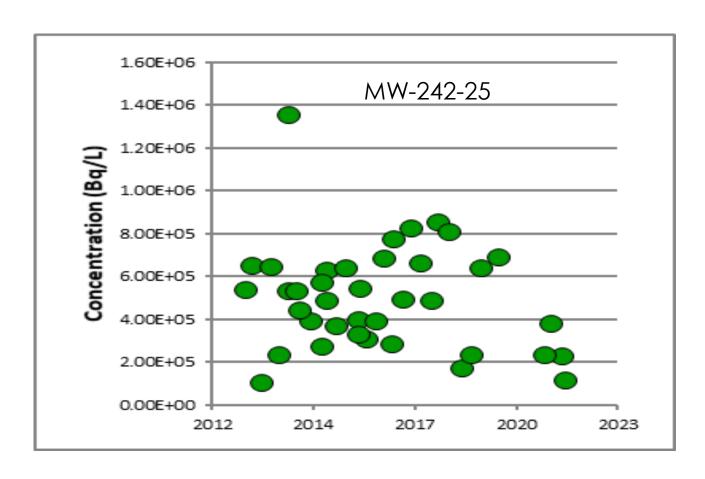
Unit 1, Unit 2, and Vacuum Building Areas



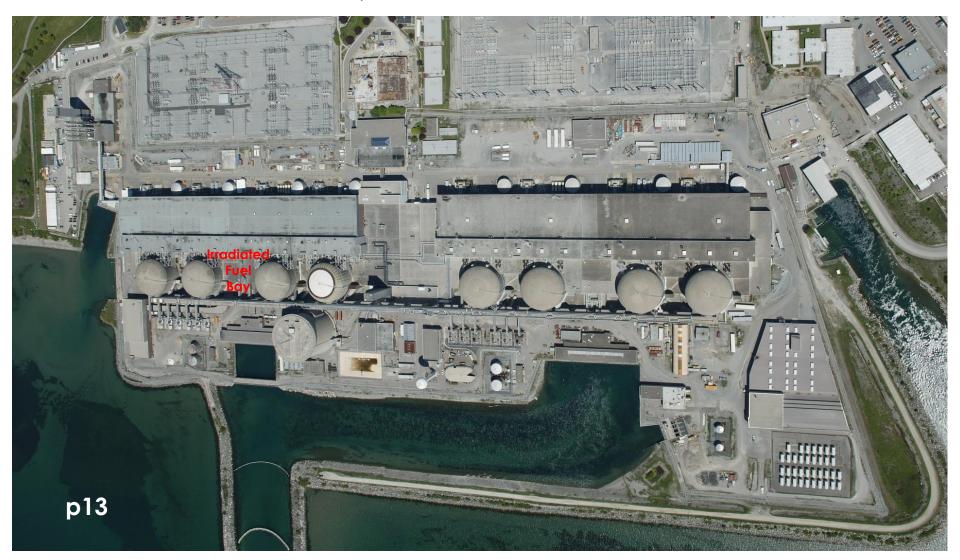
Unit 3 and Unit 4 Areas



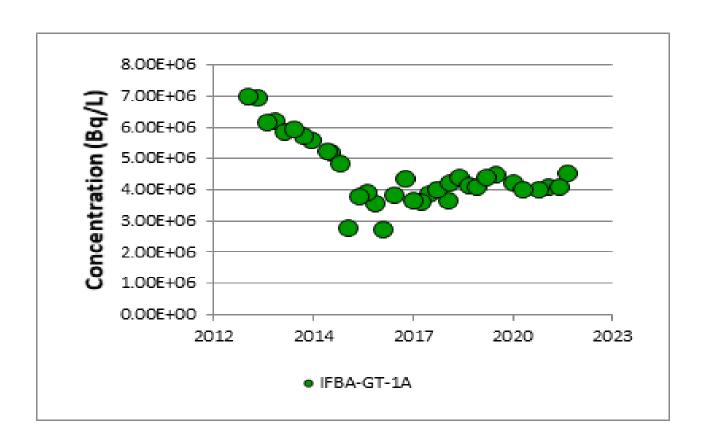
Unit 3 and Unit 4 Areas



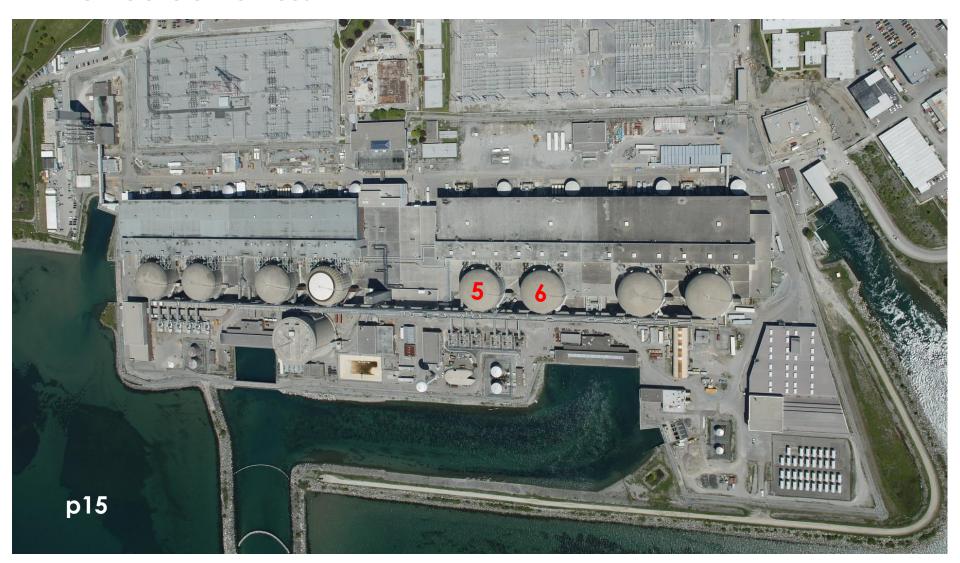
Unit 1 – 4 Irradiated Fuel Bay Area



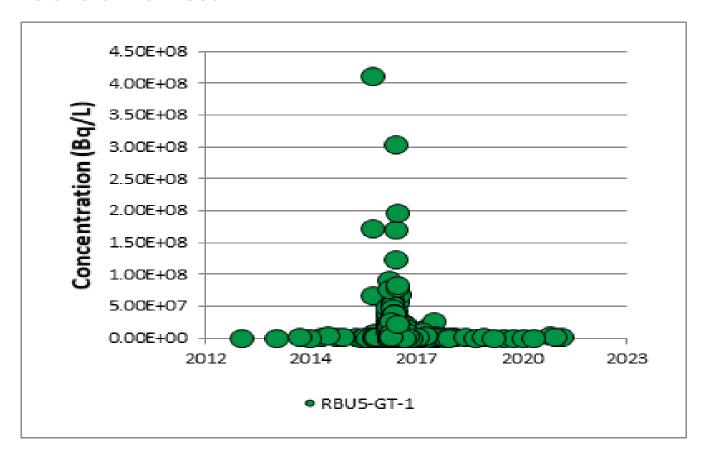
Unit 1 – 4 Irradiated Fuel Bay Area



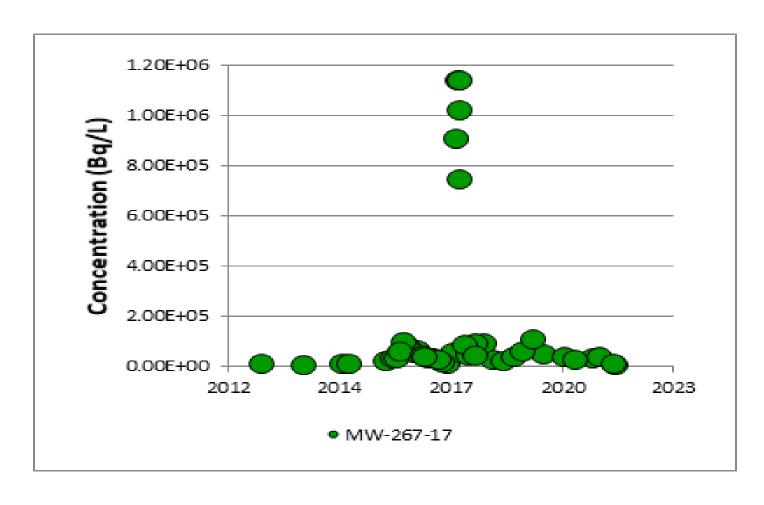
Unit 5 and Unit 6 Areas



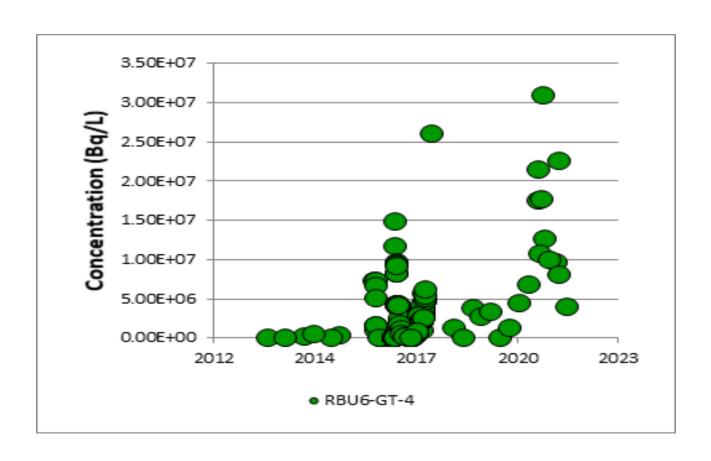
Unit 5 and Unit 6 Areas



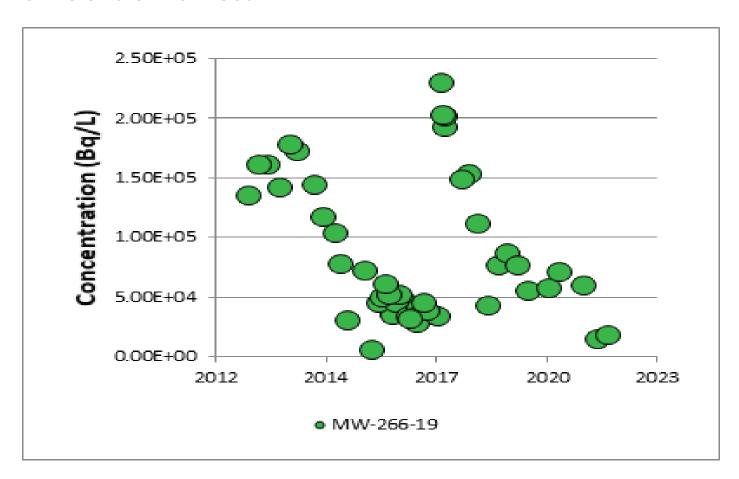
PN Groundwater Quality Unit 5 and Unit 6 Areas



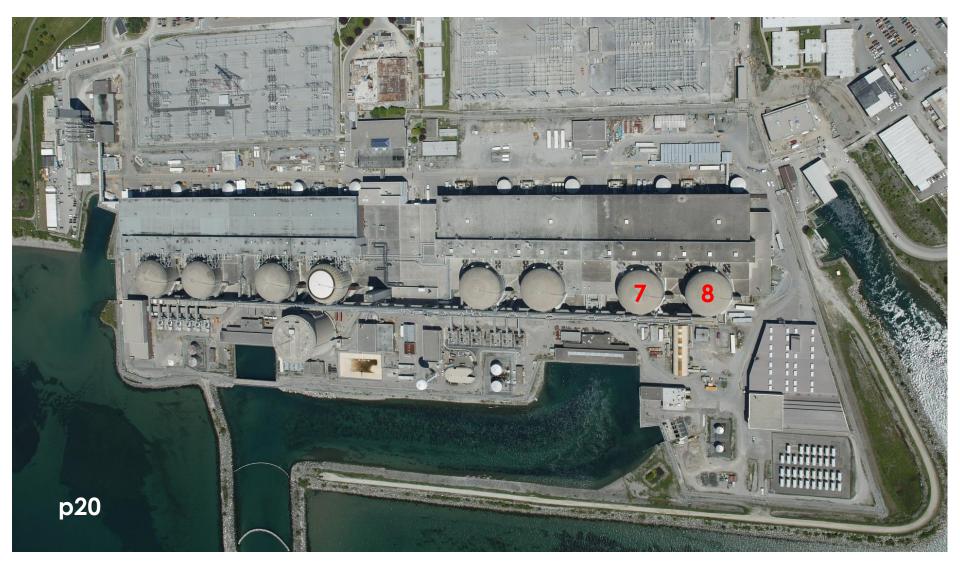
Unit 5 and Unit 6 Areas



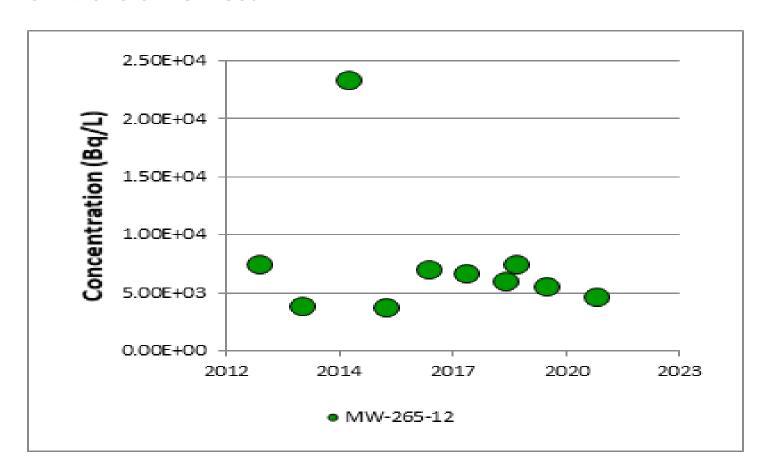
Unit 5 and Unit 6 Areas



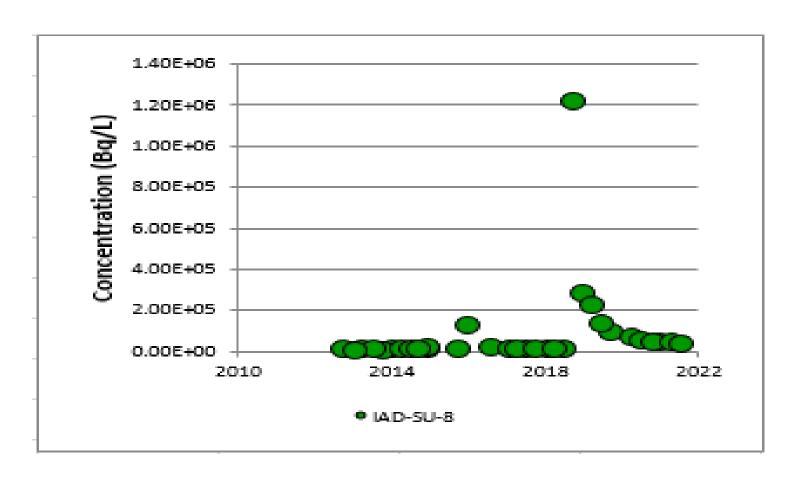
Unit 7 and Unit 8 Areas



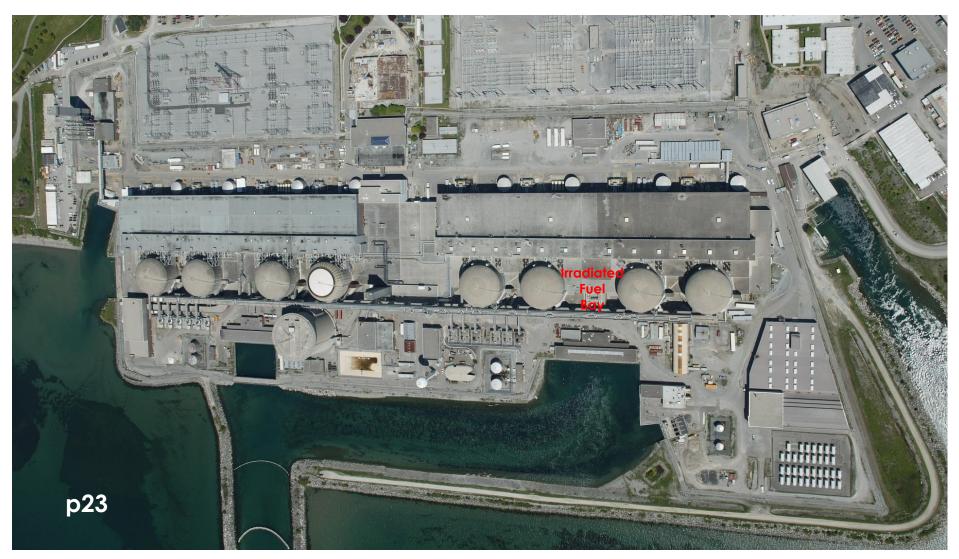
Unit 7 and Unit 8 Areas



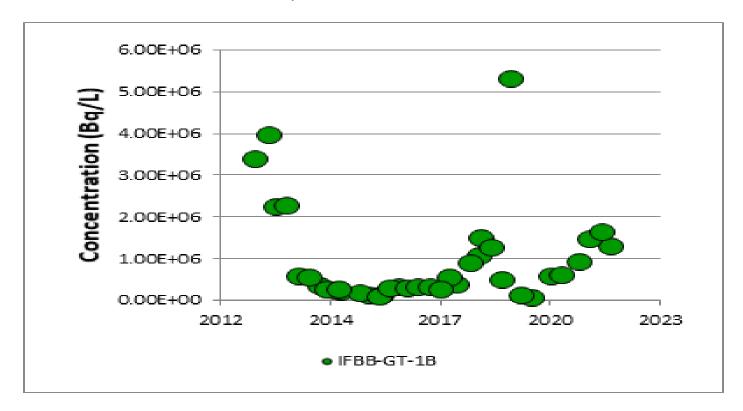
Unit 7 and Unit 8 Areas



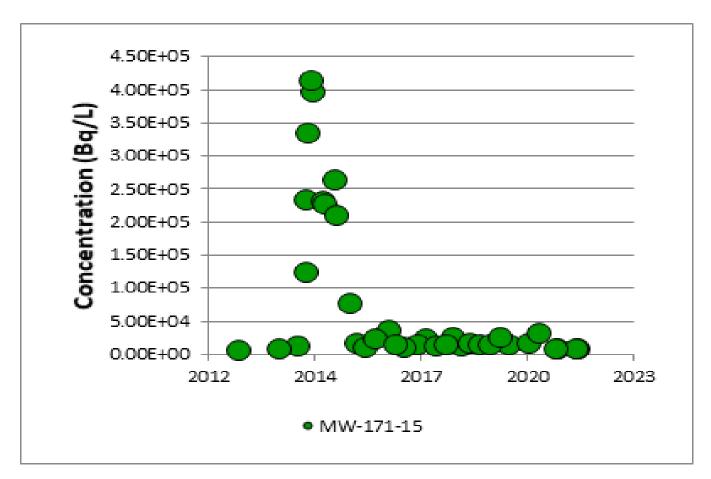
Unit 5 – 8 Irradiated Fuel Bay Area



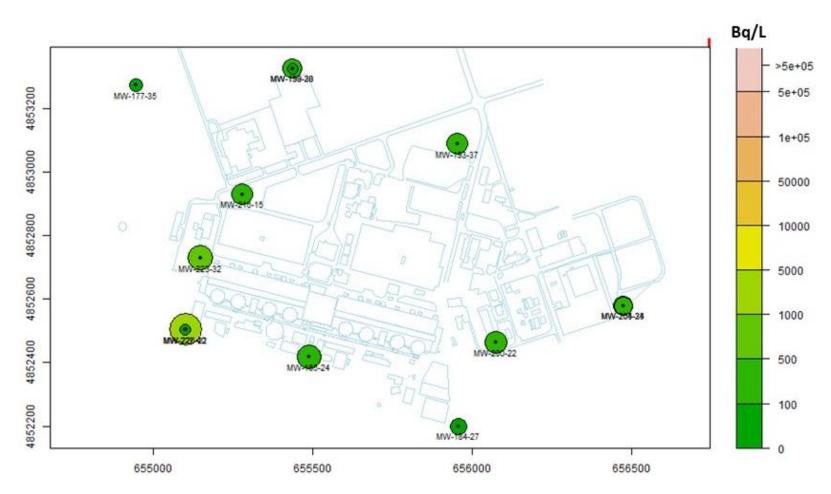
Unit 5 – 8 Irradiated Fuel Bay Area



Unit 5 – 8 Irradiated Fuel Bay Area



PN | Site Boundary Groundwater Quality

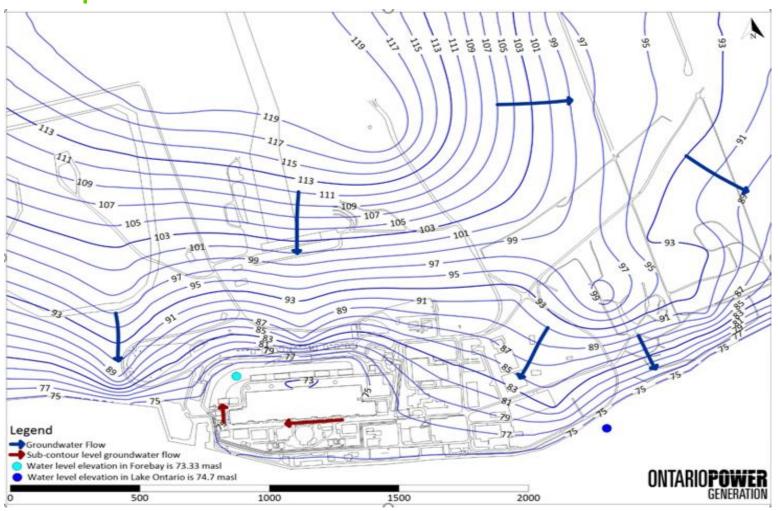


DN | Program Overview



- √ 81 sampling locations
- ✓ 180 samples

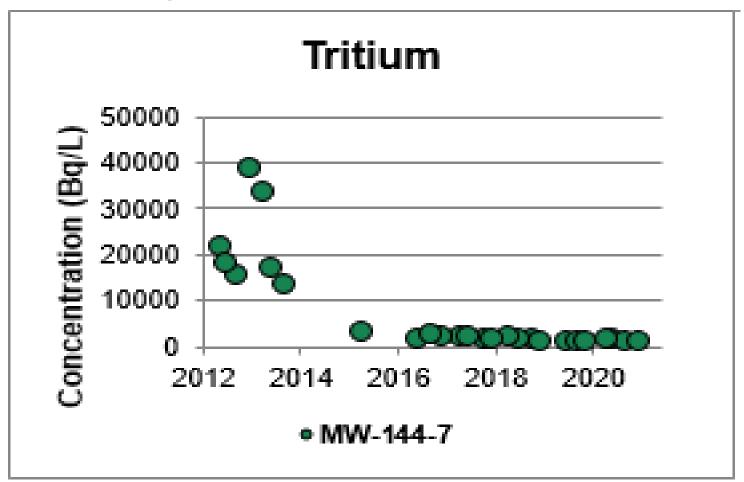
DN | Groundwater Flow Direction



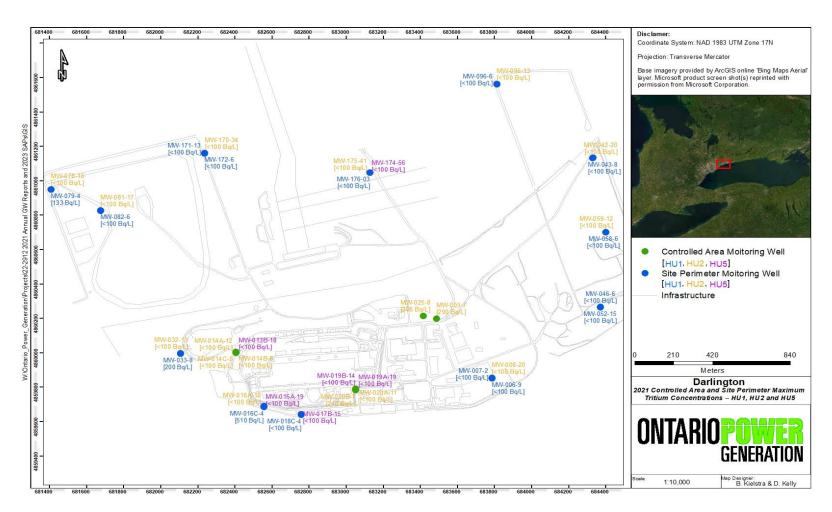
Reactor Building Area



Reactor Building Area



DN | Site Boundary Groundwater Quality



2021 Summary

- For both Pickering Nuclear and Darlington Nuclear, the groundwater flow patterns remain consistent with original interpretations
- Groundwater data collected from key areas remained stable, which indicate consistent environmental performance
- There were no indications of off-site impacts from PN and DN groundwater



Questions ???